MEMO FROM

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Ben Water Hyp. RC

NTA/ Pringle report

MAR 24 1070

1)

Thank you for sending me this. Do you have any more detailed information on "Ramel/Natural Science Res. Council Sweden" and his genetic experiments? Without some wuantitative data it is difficult to evaluate the assertion that the genetic effects actually described are in fact insignificant.

2) Have you calculated the impact of NTA discharge on <u>nitrate</u> contamination of surface waters? Besides the possibility of new kinds of eutrophication, I need merely mention the concerns that have been expressed by Commoner and by Epstein.

Mr. Johnson's speech (I have gotten the actual text) included a further cautionary remark that was overlooked by the reporter for C&EN.

Sincerely,

Jahre Rally

ABS, however, is currently a bigger factor in DWV piping than is PVC. This fact, along with the as-yet undecided battle for the water main and sewage line markets now dominated by polyethylene and styrene rubber (among plastics), is causing Goodrich and others to keep their hands in both ABS and PVC.

DETERGENTS: NTA Is Best

In the continuing search for substitutes for phosphate builders in detergents, nitrilotriacetic acid (NTA) may be the best one found so far, according to Charles C. Johnson, Jr. administrator of HEW's Environmental Health Service. Speaking at the 43rd annual convention of the Soap and Detergent Association (SDA) in New York City, Mr. Johnson said that NTA is 70% degradable by biological sewage treatment. Animal experiments have revealed no genetic effects, he added, and no evidence of acute toxicity from NTA.

Phosphate builders, which have been branded by environmentalists as major pollutants, are detergent-enhancing ingredients. Among other functions, they soften water, sequester dirt, buffer, and prevent stains. Spokesmen for the detergent industry claim that there is no safe, adequate substitute for phosphates that can be supplied economically. About 2 billion pounds of phosphate builders are consumed per year. NTA production capacities total about 100 million pounds per year.

Industry spokesmen also maintain that phosphorus is only one of some 15 to 20 nutrients that can cause eutrophication (overfertilization of choking algal growths and dra consumption of the oxygen).

But government agencies contito apply pressure for the elimina of phosphates in detergents becathese are the most readily controllinutrients. One suggestion from Cernment is that phosphate conshould be announced on proclabels, allowing housewives a chebetween polluting and not polluti Industry spokesmen feel that howives will opt for cheap clear power, which requires phosphates.

Mr. Johnson says that goverum agencies are also looking closely respiratory and dermatological pr lems associated with the enzymes some detergent formulations. This increasing concern for workers y have incurred ailments from diffumes, chemicals, and noise. And Administration-backed bill conceing general occupational health a safety is now before Congress.

Elizabeth Hanford, executive rector of the President's Commit on Consumer Interests, says that I office has received a number of coplaints about detergents, included claims that washing machine limit peeled after use of enzyme deterger

General Electric's Dr. Leo Letold the SDA convention audienthat enzymes in detergents have a cessitated additional research laundry appliances. The material quiring the most careful scrutiny, I Loeb says, is the porcelain enanfinish inside the typical washer.

The quiet revolution going on the fiber makeup of the typical hor wash load—synthetics are displaci cotton—will force innovations in det gent formulations, too, Dr. Lo predicts. Laundry hardware a detergent products have been tun over the years for washing cotton.